

# **CY 2018 AIR QUALITY TRENDS UPDATE**

**Air Quality Subcommittee  
June 21, 2019**

# **ACTION REQUESTED**

**No action is requested at this time. This presentation is for information and presentation only.**

## **PREVIOUS ACTION**

**Staff has presented on Air Quality Trends updates at previous Subcommittee meetings**

# BACKGROUND

## **NOACA tracks & provides regular updates on Northeast Ohio's air quality**

- Publishes annual Air Quality Trends report
- Provides updates on region's status for National Ambient Air Quality Standards (NAAQS)

## **Air quality continues to improve overall in the region**

- Concentrations of all pollutants continue to decline, though there is year-to-year variation
- Region in nonattainment for two of six NAAQS



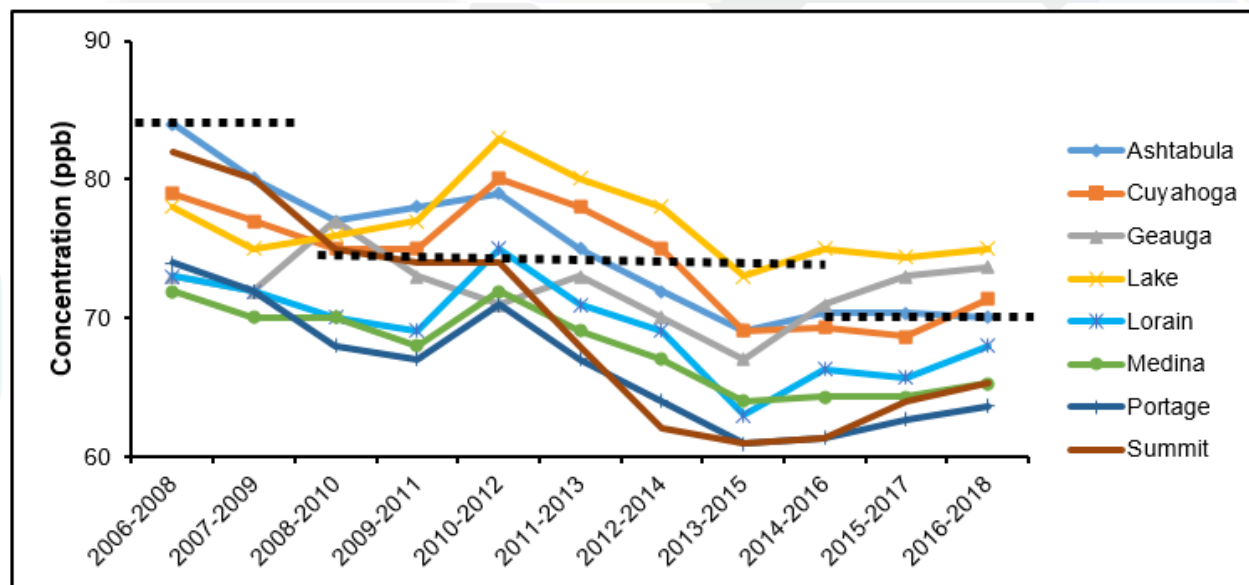
# BACKGROUND

- **U.S. EPA strengthened NAAQS to 70 ppb from 75 ppb on October 26, 2015**
- **U.S. EPA issued nonattainment designations on April 30, 2018**
- **Northeast Ohio designated as marginal nonattainment area**
  - Lake County (75 ppb) & Geauga County (71 ppb) had values above the NAAQS
  - Attainment Date: August 3, 2021



# BACKGROUND

- Lake County had highest O<sub>3</sub> value in 2018 (76 ppb)
- Lake (75 ppb) Geauga (74 ppb), and Cuyahoga (71 ppb) 3-year average O<sub>3</sub> values above NAAQS
- Region experienced 13 exceedance days in 2018



3-year average of 8-hour maximum O<sub>3</sub> levels ((2006-2008)-(2016-2018))

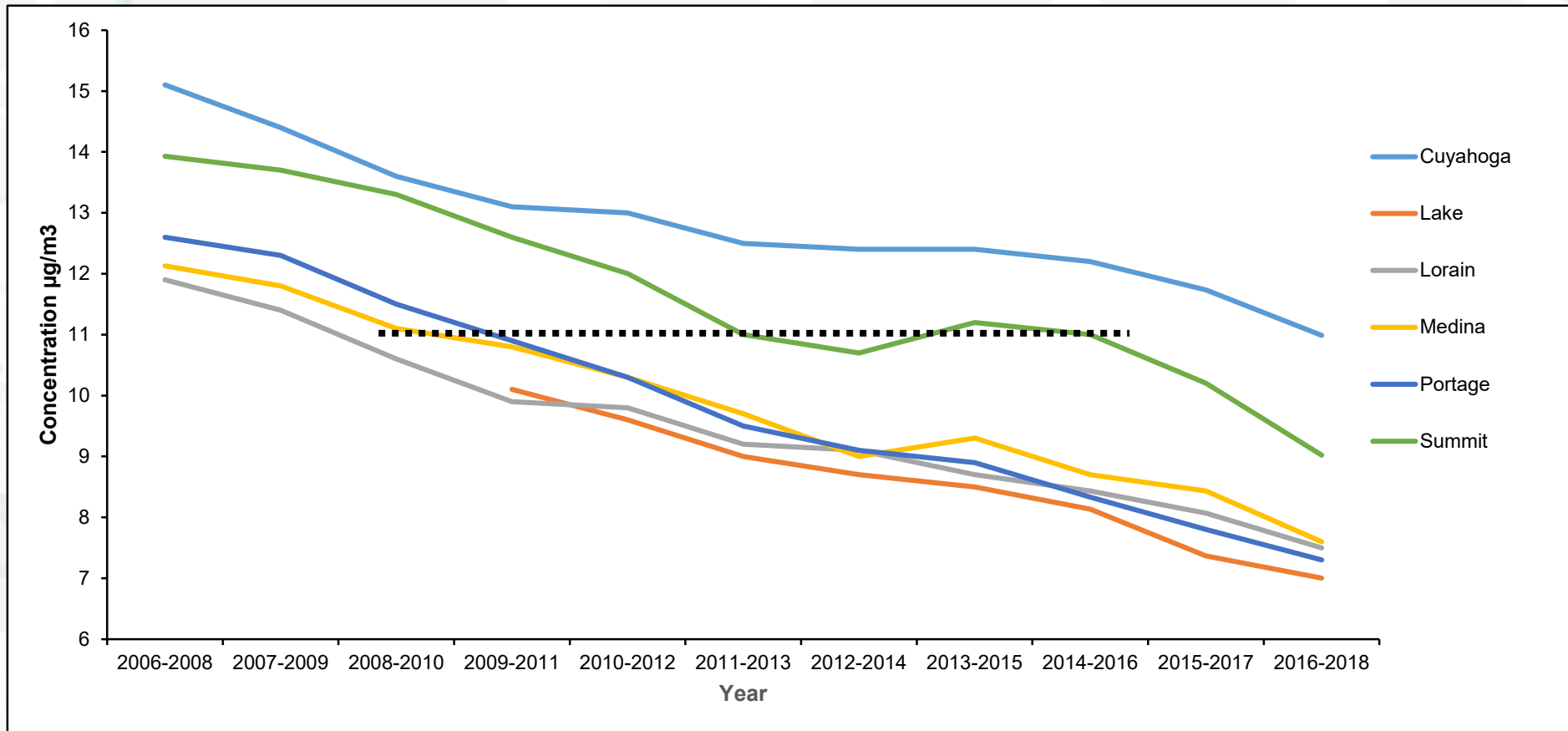




# BACKGROUND

- **Cuyahoga & Lorain designated nonattainment for 2012 annual PM<sub>2.5</sub> NAAQS in 2015**
  - Annual NAAQS set at 12 µg/m<sup>3</sup> averaged over 3 years
  - Cuyahoga had level of 12.5 µg/m<sup>3</sup> from 2011-2013
- **Cuyahoga's 2018 level was 11.1 µg/m<sup>3</sup>, down slightly from 11.2 µg/m<sup>3</sup> in 2017**
  - Lowered 2016-2018 average to 11 µg/m<sup>3</sup>
  - U.S. EPA redesignated region to maintenance status on April 12, 2019

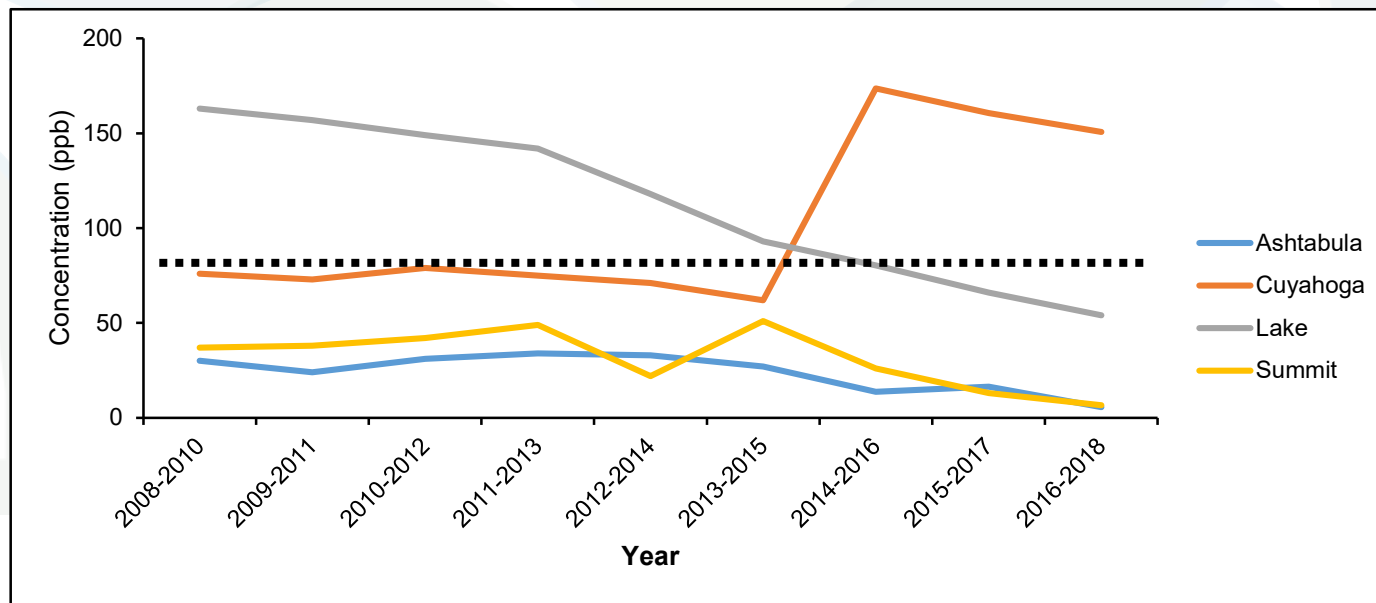
# BACKGROUND



3-Year Averages of Annual PM<sub>2.5</sub> for Northeast Ohio ((2006-2008)-(2016-2018))

# BACKGROUND

- **Lake County designated nonattainment for 2010 SO<sub>2</sub> annual NAAQS (75 ppb) in July 2013**
  - Lake County annual concentration was 53 ppb in 2018
  - 3-year average SO<sub>2</sub> value from 2016-2018 was 54 ppb
- **Ohio EPA filed redesignation request on April 8, 2018**



3-Year Average of the 99th Percentile of Daily Max 1-Hour Average ((2008-2010)-(2016-2018))



# NEXT STEPS

- Staff is finalizing draft of CY 2018 Air Quality Trends Report
- Staff will review, revise, and finalize draft during first half of FY 2020





NOACA will **STRENGTHEN** regional cohesion, **PRESERVE** existing infrastructure, and **BUILD** a sustainable multimodal transportation system to **SUPPORT** economic development and **ENHANCE** quality of life in Northeast Ohio.

